Early life host–bacteria relations and development: Long-term individual differences in neuroimmune function following neonatal endotoxin challenge
WALKER, F.R., N.A. HODYL, K.M. KRIVANEK AND D.M. HODGSON 126
Intercollegiate soccer: Saliva cortisol and testosterone are elevated during competition, and testosterone is related to status and social connectedness with teammates
EDWARDS, D.A., K. WETZEL AND D.R. WYNER 135
Sleep deprivation and daily torpor impair object recognition in Djungarian hamsters
PALCHYKOVA, S., F. CRESTANI, P. MEERLO AND I. TOBLER 144
Development of a behavioral task measuring reward "wanting" and "liking" in rats
WILSON, D.I.G., A. LAIDLAW, E. BUTLER, D. HOFMANN AND E.M. BOWMAN. 154
Effects of the acoustic environment on learning in rats
PRIOR, H. 162
Effect of repeated exposures to cold on cognitive performance in humans
MÄKINEN, T.M., L.A. PALINKAS, D.L. REEVES, T. PÄÄKKÖNEN, H. RINTAMÄKI, J. LEPPÄLUOTO AND J. HASSI 166
EEG spectral power and cognitive performance during sleep inertia: The effect of normal sleep duration and partial sleep deprivation
TASSI, P., A. BONNEFOND, O. ENGASSER, A. HOEFT, R. ESCHENLAUER AND A. MUZET 177
Metabolic effects of green tea and of phases of weight loss
DIEPVENS, K., E.M.R. KOVACS, N. VOGELS AND M.S. WESTERTERP-PLANTENGA 185
Heredity influences the dietary energy density of free-living humans
DE CASTRO, J.M. 192
A competitive effect of androgen signaling on male mouse attraction to volatile female mouse odors
MUROI, Y., T. ISHII, S. KOMORI AND M. NISHIMURA 199
Temporal characteristics of feeding behavior in the Munich miniature pig
MUSIAL, F., A. KOWALSKI, A. TREIBER AND P. ENCK 206

Book review
Introduction to Psychoneuroimmunology
NELSON, R.J. 219

CONTENTS VOLUME 87 NUMBER 2 2006

Invited review
The rise, fall, and resurrection of the ventromedial hypothalamus in the regulation of feeding behavior and body weight
KING, B.M. 221

Brief communication
Comparison of energy balance in two inbred strains of rats: Fischer F344 prone to obesity and Lou rats resistant to obesity
ABDOULAYE, D., S. WETZLER, M. GOUBERN, J.M. HELIES, G. FROMENTIN, D. TOMÉ AND C. LARUE-ACHAGIOTIS. 245

Articles
Integrated zone comparison polygraph technique accuracy with scoring algorithms
GORDON, N.J., F.B. MOHAMED, S.H. FARO, S.M. PLATEK, H. AHMAD AND J.M. WILLIAMS 251
Sleep is increased in mice with obesity induced by high-fat food
JENKINS, J.B., T. OMORI, Z. GUAN, A.N. VGONTZAS, E.O. BIXLER AND J. FANG 255
Understanding variety: Tasting different foods delays satiation
HETHERINGTON, M.M., R. FOSTER, T. NEWMAN, A.S. ANDERSON AND G. NORTON 263
Multidimensional scaling of ferrous sulfate and basic tastes
STEVENS, D.A., R.F. SMITH AND H.T. LAWLESS 272
Effects of sibutramine on the appetitive and consummatory aspects of feeding in non-human primates
FOLTIN, R.W. 280

Role of familiarity on effects of caffeine- and glucose-containing soft drinks
SMIT, H.J., M.L. GRADY, Y.E. FINNEGAN, S.-A.C. HUGHES, J.R. COTTON AND P.J. ROGERS 287

Modulation of memory with septal injections of morphine and glucose: Effects on extracellular glucose levels in the hippocampus
MCNAY, E.C., C.E. CANAL, R.S. SHERWIN AND P.E. GOLD 298

Bitter taste markers explain variability in vegetable sweetness, bitterness, and intake
DINEHART, M.E., J.E. HAYES, L.M. BARTOSHUK, S.L. LANIER AND V.B. DUFFY 304

Behavioral and physiological effects of chronic mild stress in female rats
BAKER, S.L., A.C. KENTNER, A.T.M. KONKLE, L. SANTA-MARIA BARBAGALLO AND C. BIELAJEW 314

Restrained eaters show altered brain response to food odor
KEMMOTSU, N. AND C. MURPHY 323

Ethanol exposure during development reduces resident aggression and testosterone in rats
LUGO JR., J.N., M.D. MARINO, J.T. GASS, M.A. WILSON AND S.J. KELLY 330

Sertraline delays the somatic growth and reflex ontogeny in neonate rats
DEIRÓ, T.C.B.J., R. MANHÃES-DE-CASTRO, J.E. CABRAL-FILHO, J.M. BARRETO-MEDEIROS, S.L. SOUZA, S.M.O.C. MARINHO, F.M.M. CASTRO, A.E. TOSCANO, R.A. JESUS-DEIRÓ AND K.M.F.T. BARROS 338

The effect of confinement during lactation on the hypothalamic–pituitary–adrenal axis and behaviour of primiparous sows
JARVIS, S., R.B. D'EATH, S.K. ROBSON AND A.B. LAWRENCE 345

The orexigenic effect of peripheral ghrelin differs between rats of different age and with different baseline food intake, and it may in part be mediated by the area postrema
GILG, S. AND T.A. LUTZ 353

Metabolic effects of voluntary wheel running in young and old Syrian golden hamsters
COUTINHO, A.E., S. FEDIUC, J.E. CAMPBELL AND M.C. RIDDELL 360

An activity indicator of acute withdrawal depends on amphetamine dose in rats
WHITE, W. AND I.M. WHITE 368

Effects of AP5 infusion into the lateral ventricle on the activities and hippocampal electrical patterns of sleep episodes in rats
MELIK, E., E. BABAR AND M. GUVEN 377

Alarm pheromone increases defensive and risk assessment behaviors in male rats
KIYOKAWA, Y., M. SHIMOZURU, T. KIKUSUI, Y. TAKEUCHI AND Y. MORI 383

Caprylic acid infusion acts in the liver to decrease food intake in rats
JAMBOR DE SOUSA, U.L., M. ARNOLD, W. LANGHANS, N. GEARY AND M. LEONHARDT 388

Effects of sleep deprivation and exercise on cognitive, motor performance and mood
SCOTT, J.P.R., L.R. MCNAUGHTON AND R.C.J. POLMAN 396

Effect of lithium on morphine state-dependent memory of passive avoidance in mice
ZARRINDAST, M.R., S. FAZLI-TABAEI, S. AHMADI AND S.H. YAHYAVI 409

Low temperatures during early development influence subsequent maternal and reproductive function in adult female mice
BENDERLIOGLU, Z., J. EISH, Z.M. WEIL AND R.J. NELSON 416

Effects of stress on parental care are sexually dimorphic in prairie voles
BALES, K.L., K.M. KRAMER, A.D. LEWIS-REESE AND C.S. CARTER 424

Effects of selenium depletion and selenium repletion by choice feeding on selenium status of young and old laying hens
ZUBERBUEHLER, C.A., R.E. MESSIKOMMER, M.M. ARNOLD, R.S. FORRER AND C. WENK 430

Gastric compliance in bulimia nervosa
ZIMMERLI, E.J., B.T. WALSH, J.L. GUSS, M.J. DEVLIN AND H.R. KISSILEFF 441

Book review

Neurobiology of attention
DAVIS, E.T. 447

Corrigendum

Corrigendum to "Defensive behaviors in wild and laboratory (Swiss) mice: The mouse defense test battery" [Physiol. Behav. 65 (2) (1998) 201–209]
BLANCHARD, R.J., M.A. HEBERT, P.F. FERRARI, P. PALANZA, R. FIGUEIRA, D.C. BLANCHARD AND S. PARMIGIANI 449

CONTENTS

VOLUME 87 NUMBER 3 2006

Articles

A twin study of the effects of energy density and palatability on energy intake of individual foods
MCCRORY, M.A., E. SALTZMAN, B.J. ROLLS AND S.B. ROBERTS 451

Tolerance and withdrawal in goldfish exposed to ethanol
CRAWSHAW, L.I., H.L. WALLACE, C.S. O'CONNOR, T. YODA AND J.C. CRABBE 460

Does modification of olfacto-gustatory stimulation diminish sensory-specific satiety in humans?
ROMER, M., J. LEHRNER, V. VAN WYMELBEKE, T. JIANG, L. DEECKE AND L. BRONDEL 469

Evidence of a role for conditioning in the development of liking for flavours in humans in everyday life
APPLETON, K.M., R.C. GENTRY AND R. SHEPHERD 478

Weight suppression predicts weight gain during inpatient treatment of bulimia nervosa
LOWE, M.R., W. DAVIS, D. LUCKS, R. ANNUNZIATO AND M. BUTRYN 487

Thermoregulatory behavior is disrupted in rats with lesions of the anteroventral third ventricular area (AV3V)
WHYTE, D.G., T.J. BRENNAN AND A.K. JOHNSON 493

A new method for measuring reaction times for odour detection at iso-intensity: Comparison between an unpleasant and pleasant odour
JACOB, T.J.C. AND L. WANG 500

Behavioral indicators of stress-coping style in rainbow trout: Do males and females react differently to novelty?
ØVERLI, Ø., C. SØRENSEN AND G.E. NILSSON 506

Metallothionein expression and neurocognitive function in mice
LEVIN, E.D., C. PERRAUT, N. POLLARD AND J.H. FREEDMAN 513

Faecal corticosterone concentrations indicate that separately housed male mice are not more stressed than group housed males
HUNT, C. AND C. HAMBLY 519

The effects of selective breeding for infant ultrasonic vocalizations on play behavior in juvenile rats
BRUNELLI, S.A., R. NIE, C. WHIPPLE, V. WINIGER, M.A. HOFER AND B. ZIMMERBERG 527

Human interaction and cortisol: Can human contact reduce stress for shelter dogs?
COPPOLA, C.L., T. GRANDIN AND R.M. ENNS 537

Central gustatory lesions and learned taste aversions: Unconditioned stimuli
MUNGARNDEE, S.S., R.F. LUNDY JR. AND R. NORGREN 542

Effects of sex, hindpaw injection site and stimulus modality on nociceptive sensitivity in arthritic rats
COOK, C.D. AND K.I. MOORE 552

Individual variability and photic entrainment of circadian rhythms in golden spiny mice
COHEN, R. AND N. KRONFELD-SCHOR 563

A selective serotonin reuptake inhibitor reduces REM sleep in the homing pigeon
FUCHS, T., J.J. SIEGEL, J. BURGDORF AND V.P. BINGMAN 575

Detection of free fatty acids following a conditioned taste aversion in rats
MCCORMACK, D.N., V.L. CLYBURN AND D.W. PITTMAN 582

Genetic variance contributes to ingestive processes: A survey of 2-deoxy-D-glucose-induced feeding in eleven inbred mouse strains
LEWIS, S.R., S. AHMED, E. KHAIMOVA, Y. ISRAEL, A. SINGH, Y. KANDOV, B. KEST AND R.J. BODNAR 595

Intake, sweetness and liking during modified sham feeding of sucrose solutions
KLEIN, D.A., J.S. SCHEBENDACH, M.J. DEVLIN, G.P. SMITH AND B.T. WALSH 602

Food restriction affects reproduction and survival of F1 and F2 offspring of Rat-like hamster (*Cricetulus triton*)
LIANG, H. AND Z. ZHANG 607

Effects of transdermal nicotine on attention in adult non-smokers with and without attentional deficits
POLTAVSKI, D.V. AND T. PETROS 614

Effect of intrauterine position on sex differences in the gabaergic system and behavior of rats
HERNÁNDEZ-TRISTÁN, R., M.L. LERET AND D. ALMEIDA 625

An olfactory biconditional discrimination in the mouse
DREUMONT-BOUDREAU, S.E., R.N. DINGLE, G.M. ALCOLADO AND V.M. LOLORDO 634

Book review

What a little (Z)-7-dodecen-1-yl acetate can do
HERNESS, S. 641

CONTENTS VOLUME 87 NUMBER 4 2006

Articles

Nociception- and anxiety-like behavior in rats submitted to different periods of restraint stress
GAMEIRO, G.H., P.H. GAMEIRO, A. DA SILVA ANDRADE, L.F. PEREIRA, M.T. ARTHURI, F.K. MARCONDES AND M.C.F. DE ARRUDA VEIGA 643

Diurnal and weekly rhythms of health-related variables in home recordings for two months
TUOMISTO, M.T., T. TERHO, I. KORHONEN, R. LAPPALAINEN, T. TUOMISTO, P. LAIPPALA AND V. TURJANMAA 650

Two months makes a difference in spatial orientation learning in very old FBNF1 rats
VAN DER STAAY, F.J. 659

Model for predicting and phenotyping at normal weight the long-term propensity for obesity in Sprague–Dawley rats
DOURMASHKIN, J.T., G.-Q. CHANG, J.O. HILL, E.C. GAYLES, S.K. FRIED AND S.F. LEIBOWITZ 666

Energy density and weight of food effect short-term caloric compensation in men
MAZLAN, N., G. HORGAN AND R.J. STUBBS 679

Effect of endogenous histamine in the ventral hippocampus on fear memory deficits induced by scopolamine as evaluated by step-through avoidance response in rats
YU, C., Y. SHEN, L. XU, Y. ZHU, Z. ZHUGE, Y. HUANG, T. HENK, L. ROB, E. WEI AND Z. CHEN 687

Maternal aggression persists following lipopolysaccharide-induced activation of the immune system
WEIL, Z.M., S.L. BOWERS, E.R. DOW AND R.J. NELSON 694

Feeding and neuroendocrine responses after recurrent insulin-induced hypoglycemia
SANDERS, N.M., D.P. FIGLEWICZ, G.J. TABORSKY JR., C.W. WILKINSON, W. DAUMEN AND B.E. LEVIN 700

Sleep induction and temperature lowering by medial preoptic α_1 adrenergic receptors
VETRIVELAN, R., H.N. MALLICK AND V.M. KUMAR. 707

Volume and variety: Relative effects on food intake
NORTON, G.N.M., A.S. ANDERSON AND M.M. HETHERINGTON. 714

Behavioral phenotyping of mice lacking the K_{ATP} channel subunit Kir6.2
DEACON, R.M.J., R.C. BROOK, D. MEYER, O. HAECKEL, F.M. ASHCROFT, T. MIKI, S. SEINO AND B. LISS 723

Sucrose motivation in sweet "sensitive" (C57BL/6J) and "subsensitive" (129P3/J) mice measured by progressive ratio licking
SCLAFANI, A. 734

Enhanced sucrose and Polycose preference in sweet "sensitive" (C57BL/6J) and "subsensitive" (129P3/J) mice after experience with these saccharides
SCLAFANI, A. 745

Thermally evoked parotid salivation
LEE, A., S. GUEST AND G. ESSICK. 757

Spontaneous motor activity in fat-fed, streptozotocin-treated rats: A nonobese model of type 2 diabetes
RAMADAN, W., G. DEWASMES, M. PETITJEAN, N. LOOS, S. DELANAUD, A. GELOEN AND J.-P. LIBERT 765

Orosensory stimulation is sufficient and postingestive negative feedback is not necessary for neuropeptide Y to increase sucrose intake
TORREGROSSA, A.-M., J.D. DAVIS AND G.P. SMITH 773

Accessory olfactory neural Fos responses to a conditioned environment are blocked in male mice by vomeronasal organ removal
PANKEVICH, D.E., J.A. CHERRY AND M.J. BAUM 781

Food selection changes under stress
ZELLNER, D.A., S. LOAIZA, Z. GONZALEZ, J. PITA, J. MORALES, D. PECORA AND A. WOLF 789

Use of salient and non-salient visuospatial cues by rats in the Morris Water Maze
YOUNG, G.S., E. CHOLERIS AND J.B. KIRKLAND 794

Olfactory influences on appetite and satiety in humans
YEOMANS, M.R.. 800

Motor activity (exploration) and formation of home bases in mice (C57BL/6) influenced by visual and tactile cues: Modification of movement distribution, distance, location, and speed
CLARK, B.J., D.A. HAMILTON AND I.Q. WHISHAW 805

Reduced basal GABA concentrations in the rat amygdala during pregnancy
YOUNG, B.J. AND C.J. COOK 817

Cholinergic modulation of tonic immobility and nociception in the NRM of guinea pig
DA SILVA, L.F.S. AND L. MENESCAL-DE-OLIVEIRA 821

Anxiolytic property of estrogen related to the changes of the monoamine levels in various brain regions of ovariectomized rats
PANDARANANDAKA, J., S. POONYACHOTI AND S. KALANDAKANOND-THONGSONG 828

CONTENTS VOLUME 87 NUMBER 5 2006

Brief communications
Prolonged separation delays wound healing in monogamous California mice, *Peromyscus californicus*, but not in polygynous white-footed mice, *P. leucopus*
MARTIN II, L.B., E.R. GLASPER, R.J. NELSON AND A.C. DEVRIES. 837
Interleukin-10 (IL-10) but not Lipopolysaccharide (LPS) produces increased motor activity and abnormal exploratory patterns while impairing spatial learning in Balb/c mice
HARVEY, D., R. SMITH, K. ENGLISH, B. MAHON AND S. COMMINS 842

Articles
Leptin regulates olfactory-mediated behavior in *ob/ob* mice
GETCHELL, T.V., K. KWONG, C.P. SAUNDERS, A.J. STROMBERG AND M.L. GETCHELL 848
Sensory mediation of female–male mounting in the rat: I. Role of olfactory cues
AFONSO, V.M., A. WOEHRLING AND J.G. PFAUS 857
Sensory mediation of female–male mounting in the rat: II. Role of tactile and conspecific cues
AFONSO, V.M., V. BABLEKIS AND J.G. PFAUS 863
Low amplitude entrainment of mice and the impact of circadian phase on behavior tests
BEELER, J.A., B. PRENDERGAST AND X. ZHUANG 870
Cortical/hippocampal monoamines, HPA-axis changes and aversive behavior following stress and restress in an animal model of post-traumatic stress disorder
HARVEY, B.H., L. BRAND, Z. JEEVA AND D.J. STEIN 881
The effects of histaminergic agents in the ventral hippocampus of rats in the plus-maze test of anxiety-like behaviours
ROSTAMI, P., A. HAJIZADEH-MOGHADDAM AND M.-R. ZARRINDAST 891
Reproductive suppression in subordinate female highveld mole-rats (*Cryptomys hottentotus pretoriae*): No role for endogenous opioid peptides
TOIT, L.D., N.C. BENNETT, G.H. GUTJAHR AND C.W. COEN 897
Effect of gastric distension prior to eating on food intake and feelings of satiety in humans
OESCH, S., C. RÜEGG, B. FISCHER, L. DEGEN AND C. BEGLINGER 903
A longitudinal evaluation of urinary cortisol in kennelled dogs, *Canis familiaris*
STEPHEN, J.M. AND R.A. LEDGER 911
Iron deficiency affects acoustic startle response and latency, but not prepulse inhibition in young adult rats
BURHANS, M.S., C. DAILEY, J. WIESINGER, L.E. MURRAY-KOLB, B.C. JONES AND J.L. BEARD 917
The suitability of a caffeinated energy drink for night-shift workers
JAY, S.M., R.M. PETRILLI, S.A. FERGUSON, D. DAWSON AND N. LAMOND 925
Differential effects of lipopolysaccharide in the social behavior of dominant and submissive mice
COHN, D.W.H. AND L.C. DE SÁ-ROCHA 932
Serotonergic characteristics of rainbow trout divergent in stress responsiveness
SCHJOLDEN, J., K.G.T. PULMAN, T.G. POTTINGER, O. TOTTMAR AND S. WINBERG. 938
The enigma of behavioral inputs to the circadian clock: A test of function using restraint
MISTLBERGER, R.E. AND M.C. ANTLE 948
There's no place like home: Cage odours and place preference in subordinate CD-1 male mice
FITCHETT, A.E., C.J. BARNARD AND H.J. CASSADAY 955

Book review
Applied Exercise Psychology: A Practitioner's Guide to Improving Client Health and Fitness
WOELLERT, P.A. 963

Contents of Volume 87 964

Author Index 970

Keyword Index 973

ELSEVIER

Physiology & Behavior 87 (2006) 970–972

PHYSIOLOGY & BEHAVIOR

VOLUME 87
AUTHOR INDEX

Abdoulaye, D., 245
Adkins-Regan, E., 82
Afonso, V.M., 857, 863
Ahmad, H., 251
Ahmadi, S., 409
Ahmed, S., 595
Alcolado, G.M., 634
Almeida, D., 625
Anderson, A.S., 263, 714
Annunziato, R., 487
Antle, M.C., 948
Appleton, K.M., 478
Arnold, M., 388
Arnold, M.M., 430
Arrati, P.G., 51
Arthuri, M.T., 643
Ashcroft, F.M., 723

Babar, E., 377
Bablekis, V., 863
Baker, S.L., 314
Bales, K.L., 424
Barnard, C.J., 955
Barreto-Medeiros, J.M., 338
Barros, K.M.F.T., 338
Bartoshuk, L.M., 304
Baum, M.J., 781
Beard, J.L., 917
Beeler, J.A., 870
Beglinger, C., 903
Belzung, C., 45
Benderlioglu, Z., 416
Bennett, N.C., 88, 897
Benton, D., 16
Beyer, C., 51
Bielajew, C., 314
Bingman, V.P., 575
Bixler, E.O., 255
Blanchard, D.C., 449
Blanchard, R.J., 449
Bodnar, R.J., 595
Bonnefond, A., 177
Bowers, S.L., 694
Bowman, E.M., 154
Brand, L., 881
Brennan, T.J., 493
Brondel, L., 469
Brook, R.C., 723
Brunelli, S.A., 527
Burgdorf, J., 575
Burhans, M.S., 917
Butler, E., 154
Butryn, M., 487

Cabral-Filho, J.E., 338
Campbell, J.E., 360
Campeau, S., 72
Canal, C.E., 298
Carmona, C., 51
Carter, C.S., 424
Cassaday, H.J., 955
Castro, F.M.M., 338
Chang, G.-Q., 666
Chen, Z., 687
Cherry, J.A., 781
Choleris, E., 794
Clark, B.J., 805
Clyburn, V.L., 582
Coen, C.W., 897
Cohen, R., 563
Cohn, D.W.H., 932
Commins, S., 842
Cook, C.D., 552
Cook, C.J., 817
Coppola, C.L., 537
Cotton, J.R., 287
Coutinho, A.E., 360
Crabbe, J.C., 460
Crawshaw, L.I., 460
Crestani, F., 144
Crouch, M., 114

Da Silva, L.F.S., 821
Da Silva Andrade, A., 643
Dailey, C., 917
Daumen, W., 700
Davis, E.T., 447
Davis, J.D., 773
Davis, W., 487
Dawson, D., 925
Day, H.E.W., 72
De Arruda Veiga, M.C.F., 643
De Castro, J.M., 192
De Sá-Rocha, L.C., 932
Deacon, R.M.J., 723
Deak, T., 120
D'Eath, R.B., 345
Deecke, L., 469
Degen, L., 903
Deiró, T.C.B.J., 338
Delanaud, S., 765
Devlin, M.J., 441, 602
DeVries, A.C., 837
Dewasmes, G., 765
Diepvens, K., 185
Dinehart, M.E., 304
Dingle, R.N., 634
Dominguez, G., 51
Dorr, N.P., 114
Dourmashkin, J.T., 666
Dow, E.R., 694
Dreumont-Boudreau, S.E., 634
Duffy, V.B., 304

Edwards, D.A., 135
Eish, J., 416
El Hage, W., 45
Enck, P., 206
Engasser, O., 177
English, K., 842
Enns, R.M., 537
Eschenlauer, R., 177
Essick, G., 757

Fang, J., 255
Faro, S.H., 251
Fazli-Tabaei, S., 409
Fediuc, S., 360
Feretti, C., 109
Ferguson, S.A., 925
Ferrari, P.F., 449
Figlewicz, D.P., 700
Figueira, R., 449
Finnegan, Y.E., 287
Fischer, B., 903
Fitchett, A.E., 955
Foltin, R.W., 280
Forrer, R.S., 430
Foster, R., 263
Freedman, J.H., 513
Fried, S.K., 666
Fromentin, G., 245
Fuchs, T., 575

Gameiro, G.H., 643
Gameiro, P.H., 643
Gass, J.T., 330
Gattermann, R., 24
Gayles, E.C., 666
Geary, N., 388
Geloen, A., 765
Gentry, R.C., 478
Getchell, M.L., 848
Getchell, T.V., 848
Gilg, S., 353
Glasper, E.R., 837
Gold, P.E., 298

doi:10.1016/S0031-9384(06)00150-8

Gonzalez, Z., 789
Gordon, N.J., 251
Goubern, M., 245
Grady, M.L., 287
Grandin, T., 537
Griebel, G., 45
Guan, Z., 255
Guest, S., 757
Gupta, N., 109
Guss, J.L., 441
Gutjahr, G.H., 897
Guven, M., 377

Haeckel, O., 723
Hajizadeh-Moghaddam, A., 891
Hambly, C., 519
Hamilton, D.A., 805
Harvey, B.H., 881
Harvey, D., 842
Hassi, J., 166
Hayes, J.E., 304
Hebert, M.A., 449
Helies, J.M., 245
Helmreich, D.L., 114
Henk, T., 687
Hernández-Tristán, R., 625
Herness, S., 641
Hetherington, M.M., 263, 714
Hill, J.O., 666
Hodgson, D.M., 126
Hodyl, N.A., 126
Hoeft, A., 177
Hofer, M.A., 527
Hofmann, D., 154
Horgan, G., 679
Huang, Y., 687
Hughes, S.-A.C., 287
Hunt, C., 519

Ishii, T., 199
Israel, Y., 595

Jackson, C.R., 88
Jacob, T.J.C., 500
Jambor de Sousa, U.L., 388
Jarvis, S., 345
Jay, S.M., 925
Jeeva, Z., 881
Jenkins, J.B., 255
Jesus-Deiró, R.A., 338
Jiang, T., 469
Johnson, A.K., 493
Jones, B.C., 917

Kalandakanond-Thongsong, S., 828
Kandov, Y., 595
Kelly, S.J., 330
Kemmotsu, N., 323
Kentner, A.C., 314
Kest, B., 595
Khaimova, E., 595
Kikusui, T., 383
King, B.M., 221
Kirkland, J.B., 794
Kissileff, H.R., 441
Kiyokawa, Y., 383
Klein, D.A., 602
Koban, M., 1
Komori, S., 199
Konkle, A.T.M., 314
Korhonen, I., 650
Kovacs, E.M.R., 185
Kowalski, A., 206
Kramer, K.M., 424
Krivanek, K.M., 126
Kronfeld-Schor, N., 563
Kumar, V.M., 707
Kwiatkowska, M., 66
Kwong, K., 848

Laidlaw, A., 154
Laippala, P., 650
Lamond, N., 925
Langhans, W., 388
Lanier, S.L., 304
Lappalainen, R., 650
Larue-Achagiotis, C., 245
Lawless, H.T., 272
Lawrence, A.B., 345
Ledger, R.A., 911
Lee, A., 757
Lehrner, J., 469
Leibowitz, S.F., 666
Leonhardt, M., 388
Leppäluoto, J., 166
Leret, M.L., 625
Leung, C.H., 82
Levin, B.E., 700
Levin, E.D., 513
Levy, A., 109
Lewis, S.R., 595
Lewis-Reese, A.D., 424
Liang, H., 607
Libert, J.-P., 765
Linster, C., 109
Liss, B., 723
Loaiza, S., 789
LoLordo, V.M., 634
Loos, N., 765
Lowe, M.R., 487
Lucks, D., 487
Lugo Jr., J.N., 330
Lundy Jr., R.F., 542
Lutz, T.A., 353

Madrid, J.A., 7
Mahon, B., 842
Mäkinen, T.M., 166
Mallick, H.N., 707
Manhães-de-Castro, R., 338
Marcondes, F.K., 643
Marinho, S.M.O.C., 338
Marino, M.D., 330
Martin II, L.B., 837
Masini, C.V., 72
Massoudi, R., 31
Mazlan, N., 679
McCormack, D.N., 582
McCrory, M.A., 451
McGraw, K.J., 103
McNaughton, L.R., 396
McNay, E.C., 298
Mechoulam, R., 66
Meerlo, P., 144
Melik, E., 377
Menescal-de-Oliveira, L., 821
Messikommer, R.E., 430
Meyer, D., 723
Miki, T., 723
Mistlberger, R.E., 948
Mohamed, F.B., 251
Moore, K.I., 552
Morales, J., 789
Mori, Y., 383
Mungarndee, S.S., 542
Muroi, Y., 199
Murphy, C., 323
Murray-Kolb, L.E., 917
Musial, F., 206
Muzet, A., 177

Nabb, S., 16
Nelson, R.J., 219, 416, 694, 837
Newman, T., 263
Nie, R., 527
Nilsson, G.E., 506
Nishimura, M., 199
Norgren, R., 542
Norton, G., 263
Norton, G.N.M., 714

O'Connor, C.S., 460
Oesch, S., 903
Omori, T., 255
Øverli, Ø., 506

Pääkkönen, T., 166
Palanza, P., 449
Palchykova, S., 144
Palinkas, L.A., 166
Pandaranandaka, J., 828
Pankevich, D.E., 781
Panksepp, J., 120
Parfitt, D.B., 114
Parker, L.A., 66
Parker, R.S., 103
Parmigiani, S., 449
Pavlis, M., 109
Paylor, R., 95
Pecora, D., 789
Pereira, L.F., 643
Perraut, C., 513
Petitjean, M., 765
Petrilli, R.M., 925
Petros, T., 614
Pfaus, J.G., 857, 863
Pieke-Dahl, S., 95
Pita, J., 789
Pittman, D.W., 582
Platek, S.M., 251
Pollard, N., 513
Polman, R.C.J., 396
Poltavski, D.V., 614
Poonyachoti, S., 828
Pottinger, T.G., 938
Prendergast, B., 870
Prior, H., 162
Pulman, K.G.T., 938

Ramadan, W., 765
Reeves, D.L., 166
Rezayof, A., 31
Riddell, M.C., 360
Rintamäki, H., 166
Rob, L., 687
Roberts, S.B., 451
Robson, S.K., 345
Roesch, D.M., 39
Rogers, P.J., 287
Rolls, B.J., 451
Romer, M., 469
Rosenblatt, J.S., 51
Rostami, P., 891
Rubio, V.C., 7
Rüegg, C., 903

Saltzman, E., 451
Sánchez-Vázquez, F.J., 7
Sanders, N.M., 700
Santa-Maria Barbagallo, L., 314
Sauer, S., 72

Saunders, C.P., 848
Schebendach, J.S., 602
Scheibler, E., 24
Schjolden, J., 938
Sclafani, A., 734, 745
Scott, J.P.R., 396
Seino, S., 723
Sepehri, H., 31
Shen, Y., 687
Shepherd, R., 478
Sherwin, R.S., 298
Shimozuru, M., 383
Siegel, J.J., 575
Singh, A., 595
Smit, H.J., 287
Smith, G.P., 602, 773
Smith, R., 842
Smith, R.F., 272
Snyman, P.C., 88
Souza, S.L., 338
Spencer, C.M., 95
Sørensen, C., 506
Stein, D.J., 881
Stephen, J.M., 911
Stevens, D.A., 272
Stewart, C.V., 1
Stromberg, A.J., 848
Stubbs, R.J., 679

Taborsky Jr., G.J., 700
Takeuchi, Y., 383
Tassi, P., 177
Terho, T., 650
Tobler, I., 144
Toit, L.D., 897
Tomé, D., 245
Torregrossa, A.-M., 773
Toscano, A.E., 338
Tottmar, O., 938
Treiber, A., 206
Tuomisto, M.T., 650
Tuomisto, T., 650
Turjanmaa, V., 650

Van der Staay, F.J., 659
Van Wymelbeke, V., 469
Vetrivelan, R., 707
Vgontzas, A.N., 255
Vogels, N., 185

Walker, F.R., 126
Wallace, H.L., 460
Walsh, B.T., 441, 602
Wang, L., 500
Wei, E., 687
Weil, Z.M., 416, 694
Weinandy, R., 24
Wenk, C., 430
Westerterp-Plantenga, M.S., 185
Wetzel, K., 135
Wetzler, S., 245
Whipple, C., 527
Whishaw, I.Q., 805
White, I.M., 368
White, J., 72
White, W., 368
Whyte, D.G., 493
Wiesinger, J., 917
Wilkinson, C.W., 700
Williams, J.M., 251
Wilson, D.I.G., 154
Wilson, M.A., 330
Winberg, S., 938
Winiger, V., 527
Woehrling, A., 857
Woellert, P.A., 963
Wolf, A., 789
Wyner, D.R., 135

Xu, L., 687

Yahyavi, S.H., 409
Yeomans, M.R., 800
Yoda, T., 460
Young, B.J., 817
Young, G.S., 794
Yu, C., 687
Yuva-Paylor, L.A., 95

Zarrindast, M.-R., 31, 891
Zarrindast, M.R., 409
Zellner, D.A., 789
Zhang, Z., 607
Zhu, Y., 687
Zhuang, X., 870
Zhuge, Z., 687
Zimmerberg, B., 527
Zimmerli, E.J., 441
Zuberbuehler, C.A., 430

ELSEVIER

Physiology & Behavior 87 (2006) 973–976

PHYSIOLOGY & BEHAVIOR

VOLUME 87
KEYWORD INDEX

Accessory olfactory bulb, 781
Acclimation, 166
Acomys russatus, 563
Acoustic startle response, 917
ACTH, 72, 144, 345
Active avoidance response, 687
Activity, 368, 460, 870
Acute withdrawal, 368
ADHD, 614
α_1 adrenergic receptors, 707
Affective regulation, 527
Aggression, 24, 330, 416
Aggressive behavior, 625
Aging, 360, 659
Alarm pheromone, 383
Alcohol, 460
Alimentary alliesthesia, 469
Amphetamine, 368, 870
Amygdala, 221
Anesthetized estrous female, 781
Animal model, 45
Animal shelter, 537
Animal welfare, 537
Antidepressant, 154
Anxiety, 45, 383, 643, 723, 817, 828, 881, 891
AP5, 377
Appetite, 679, 714
Arcuate nucleus, 221
Area postrema, 353
ASIT Poly Suite, 251
Attention, 323, 614
Autonomic nervous system, 221
Avian REM sleep, 575
Avian sleep, 575

Baboon, 280
Baclofen, 51
Balb/c, 842
BALB/c, 45
Balloon distension, 903
Barostat, 441
Basic tastes, 272
Basolateral amygdala, 817
BAT, 245
Behavior, 95, 144, 506, 870
Behavioral diary, 650
Biconditional discrimination, 634
Bitter, 304
Blood parameters, 185
Blood pressure, 650
Body composition, 245, 360
Body temperature, 707
Body weight, 1, 221
Body weight gain, 39
Bonding, 135
Bowman's glands, 848
Brain iron, 917
Brain stimulation reward, 314
Brain-derived neurotrophic factor, 221
Breakfast, 16
Bulimia nervosa, 441, 487

CA1, 31
Caffeine, 287, 925
Cannabidiol, 66
Cannabinoids, 66
Carbohydrate, 287, 679
Carotenoid pigmentation, 103
Catecholamines, 938
CD-1 mouse, 955
c-*fos*, 781
Chemotherapy, 66
Choice feeding, 430
Cholinergic system, 821
Chronic mild stress, 314
Chronic pain, 552
Chronic stress, 345, 416
Circadian, 368, 870
Circadian rhythms, 563
Classical conditioning, 66
Cloacal sphincter muscle, 82
Clobenpropit, 687
Closed economy, 206
Cognition, 16, 166, 513
Cognitive performance, 177
Cold, 166
Competition, 135
Complete Freund's adjuvant, 552
Conditioned place preference, 31, 781, 955
Conditioned taste aversion, 582
Conditioning, 72, 287, 478, 734
Configuring, 634
Confinement, 345
Contextual cues, 805
Control of food intake, 469, 773
Coping, 114, 506
Coping strategies, 938
Core temperature, 493
Corpora lutea, 88
Cortex, 881
Corticosterone, 72, 126, 144, 424, 881
Cortisol, 135, 144, 345, 911, 938
CPT, 614
CRH, 345
Cricetulus triton, 607
Cross-sectional design, 659
Cryptomys, 88
Cyclophosphamide, 542
Cytokine, 842

Daily torpor, 144
Damaraland mole-rat, 88
Deer mouse, 837
Defensive behavior, 383, 821
Defensive withdrawal, 72
Detection latency, 500
Development, 126
Dexfenfluramine, 280
Dietary fat, 451, 582
Dietary restraint, 323
Dieting, 487
Discrimination, 109
Distraction, 263
Diurnal activity, 563
Djungarian hamster, 144
Dog, 537
Dogs, 911
Dorsal, 552
Dose–response, 368

Eating, 192
Eating behavior, 903
Elevated plus-maze, 828
Emesis, 66
Endotoxin, 126, 694
Energy, 478, 679
Energy density, 451, 679
Energy drinks, 925
Energy intake, 451
Entrainment, 870
Environmental factors, 162
ERP, 323
Estrogen, 828
Estrous cycle, 314
Event-related potential, 323
Excitatory controls of eating, 602
Exercise, 360, 396
Expectations, 287
Exploration, 842

doi:10.1016/S0031-9384(06)00151-X

Exploratory behavior, 625, 805
Expulsion, 24

Facial pain, 643
Faecal corticosterones, 519
Familiarity, 287
Fat, 679
Fat free mass, 185
Fatty acid oxidation, 388
Fear memory, 687
Feeding, 206, 506
Feeding behavior, 7, 221
Female rat, 857
Female rats, 314
Ferret odor, 72
Fertilization, 82
Fetal alcohol syndrome, 330
Fever, 126
Fish, 7
Fixed ratio, 734
Flank–perineum stimulation, 863
Flavor, 154
Flavour, 287, 478
Flow rate, 757
α-Fluoromethylhistidine, 687
fMRI, 251
Food choice, 245, 789
Food consumption, 1
Food intake, 39, 126, 263, 280, 353, 700, 714
Food intake regulation, 7
Food preference, 304
Food restriction, 607
Food selection, 789

GABA, 51, 625
$GABA_B$ receptors, 31
Galanin, 666
Gastric compliance, 441
Gastric distention, 441
Gender, 506, 552
Genetic models, 162
Genetics, 304, 595
Ghrelin, 353
Glucocorticoids, 360
Glucoprivation, 595, 700
Glucose, 298
Glucose tolerance, 16
Glutamate, 817
Glutathione peroxidase, 430
Glycaemic load, 16
Gonadal steroids, 625
Gonadotropin releasing hormone, 897
Green tea, 185
Grooming, 493
Guinea pig, 821
Gustatory, 582

Habituation, 72, 166, 842
Halothane, 881
Health, 650
Heat stress, 493
Heat-escape, 493
Hedonics, 602
Hepatic portal vein, 388
Heredity, 192
Hierarchies, 932
High-fat diet, 666, 765
High-fat food, 255
Hippocampus, 31, 298, 377, 881
Histamine, 687, 891
Home monitoring, 650
Homeostasis, 206
Horizontal scoring system, 251
Hormone, 199
Hormones, 144
HPA axis, 694
5-HT, 7, 338
Human, 166
Human interaction, 537
Humans, 679
Hunger, 800
Hurriedness, 650
6-hydoxydopamine, 707
Hyperphagia, 773
Hypoglycemia, 700
Hypoglycemia counterregulation, 700
Hypoglycemia-associated autonomic failure, 700
Hypothalamus, 666

IL-1β, 126
Immune, 837
Impulsivity, 154
Incentive, 154
Inescapable, 114
Insulin, 666
Integrated zone comparison technique, 251
Interactive technology, 478
Interleukin-10, 842
Inter-meal intervals, 206
Iron deficiency, 917
Isolation, 837

Japanese quail, 82

K_{ATP} channels, 723
Kennel, 911
Kir6.2, 723
Knockout, 513
Knockout mice, 723

Laboratory rodent, 519
Lactation, 345
Latency, 409
Lateral hypothalamus, 221
Laying hen, 430
L-DOPA, 109
Learning, 66, 162, 513
Learning impairments, 45
Leptin, 360, 666, 848
Leptin receptor, 848
Liking, 478
Linoleic acid, 582
Lipopolysaccharide, 842
Lithium chloride, 542
Litter size, 607
Locomotion, 493
Long Evans, 314
Long-term, 650
LPS, 694, 932
Luteinizing hormone, 897

Macronutrient selection, 7, 679
Macronutrients, 16, 679
Magnitude, 154
Malodour, 500
Marijuana, 66
Masking, 563
Maternal aggression, 694
Maternal behavior, 51, 416, 694
Maternal effect, 607
Meals, 192
Mechanical, 552
Medial preoptic area, 51, 707
Medial septum, 298
Melanocortins, 221
Memory, 16, 298, 513, 614
Metabolic enzymes, 666
Metallic taste, 272
Metallothionein, 513
Methoxamine, 707
Mice, 255, 634, 932
Mice and exploratory behavior, 805
Mice and motor activity, 805
Mice and spatial behavior, 805
Microdialysis, 817
Microstructure of eating, 773
Monoamineoxidase, 938
Monoamines, 828, 881, 938
Mood, 396
Morphine, 31, 298
Morris task, 659
Morris water maze, 794
Motivation, 120, 154, 280, 368, 932
Motor activity, 650, 723, 805
Mouse, 95, 870
Multidimensional scaling, 272
Munich miniature-pigs, 206
Muscimol, 51

Naloxone, 897
Nausea, 66
Neonatal, 126
Nicotine, 513
Night-shift work, 925
NMDA receptor, 377
Nociception, 821
Noise, 162
Non-photic entrainment, 948
Norepinephrine, 154
Novel environment, 493
Nucleus raphe magnus, 821

Obesity, 255
Object recognition test, 45
Objective scoring system, 251
Odor, 323, 500
Odors, 634
Odour, 500
Odour cues, 955
Oleic acid, 582
Olfaction, 109, 199, 800, 848, 857

Olfacto-gustatory stimulation, 469
Olfactory, 323
Olfactory epithelium, 848
Olfactory impairment, 857
Olfactory system, 500
Ondansetron, 66
Open field behavior, 805
Operant licking, 734
Oral administration, 7
Ornamental coloration, 103
Orosensory stimulation, 602
Ovariectomized rats, 39, 828

Palatability, 800
Parabrachial nucleus, 542
Paraventricular nucleus, 221
Parental care, 424
Parotid saliva, 757
Parturition, 345
Passive avoidance, 409
Paw withdrawal, 493
Pearson's *r*, 206
Perception, 441
Performance, 396
Pfanzagl's *T*, 206
Phases of weight loss, 185
Pheromones, 781
Physical features, 338
Pigeon, 575
Pigs, 345
Placebo, 287
Plantar, 552
Play, 527
Play behavior, 120
Plus-maze test, 891
Polygraph, 251
PolyScore, 251
Posterior nasal glands, 848
Post-ingestive effects, 451
Postoral conditioning, 745
Prandial correlations, 206
Prazosin, 707
Predator, 72
Predatory stress, 45
Preference, 287, 734
Preference threshold, 745
Prenatal alcohol, 330
Prenatal development, 416
Prepulse inhibition, 917
Progesterone, 88
Progressive ratio, 734
Protein, 679
Psychological effort, 650
Psychology of smell, 500
Psychophysics, 602
Psychophysiological, 650
PTSD, 45, 881
Pyrilamine, 891

Radial maze, 45
Radial-arm maze, 513
Ranitidine, 891
Rat, 31, 114, 120, 368, 659, 891
Rats, 109, 162, 527, 794
Reaction time, 500
Real world, 478
Recognition memory, 144
Reflex development, 338
Reinforcer, 154
REM deprivation, 575
REM sleep deprivation, 1
Reproduction, 416, 607
Reproductive competition, 24
Resident–intruder paradigm, 330
Retention, 409
Retronasal smell, 272
Reversal, 185
Reward-seeking, 154
Reward-taking, 154
Rhythm, 650
Risk assessment behavior, 383
Rodents, 360

Saccharin, 154, 734, 745
Salivary cortisol, 537
Salmonids, 938
Satiation, 263
Satiety, 7, 388, 800
Scopolamine, 120, 687
Scoring algorithms, 251
Selective breeding, 527
Selenium deficiency, 430
Sensitization, 72
Sensory specific satiety, 263, 714
Sensory-specific satiety, 469
Serotonin, 66
Sertraline, 338
Sex difference, 82, 552
Sex differences, 424
Sex ratio, 607
Sexual behavior, 82, 199
Sexual experience, 857
Sexual selection, 103
Sham feeding, 773
Sham-operated, 39
Sharp waves, 377
Shrew, 66
Sibutramine, 280
Sickness behavior, 694, 932
Sleep, 177, 255, 377
Sleep deprivation, 144, 177, 396, 925
Sleep EEG, 925
Sleep inertia, 177
Smell, 500
Soccer, 135
Social, 837
Social behavior, 330, 932
Social interaction, 120
Social rank, 955
Soft-drink, 287
Somatic growth, 338
Sows, 345
Spatial behavior, 805
Spatial learning, 794
Species-typical behavior, 723
Specific appetite, 469
Spectral analysis, 177
Spermiogenesis, 24
Spontaneous alternation, 298
Spontaneous motor activity, 765
Spontaneous ovulation, 88
Sprague–Dawley, 314
SSRI, 338
State-dependent learning, 409
Status, 135
Step-down, 409
Stimulus generalization, 582
Stimulus-induced salivation, 469
Stomach, 441
Stress, 114, 144, 424, 506, 519, 527, 643, 789, 817, 837, 881, 911, 948
Stress response, 537
Stress-induced eating, 789
Stressors, 416
Stroop, 614
Stroop test, 177
Subterranean rodent, 897
Sucrose intake and preference, 314
Suprachiasmatic nucleus, 948
Sweet, 304
Sweet taste, 602, 773
Sweet taste receptor, 745
Swine, 345
Syrian hamster, 948

T_3, 114
Tactile cues, 805
Taeniopygia guttata, 103
Taste, 272, 304, 451, 542, 800
Telemetry, 707
Temperature, 757
Temperature regulation, 460
Temperature selection, 460
Temporomandibular disorders, 643
Test battery, 95
Test interval, 95
Testosterone, 82, 135
Thalamic taste area, 542
THC, 66
Thermal, 552
Thermogenesis, 245
Thermoregulation, 166, 493
Theta-rhythm, 377
Thirst, 154
Thyroid, 114
Thyroid hormones, 430
TNF-α, 126
Tongue, 848
Tonic immobility, 821
Transdermal nicotine, 614
Traumatic stress, 45
Triglycerides, 666
Tryptophan, 938
Twins, 192, 451
Type 2 diabetes mellitus, 765

Ultrasonic vocalizations, 527
Urine, 911
Uterine position, 625

Vaginocervical stimulation, 863

Vagus nerve, 353
Variety, 263, 714
Vasectomy, 88
Vegetables, 304
Ventral noradrenergic bundle, 221
Ventral tegmental area, 781
Ventromedial hypothalamus, 221
Visceral fat, 360
Visual and tactile stimulation, 863
Visual cues, 805
Visuospatial cues, 794
Vocalization, 821
Volume, 714
Vomeronasal glands, 848

Waking EEG, 177
WAT, 245
Water intake, 126
WCST, 614
Weight gain, 487
Weight loss, 487
Weight suppression, 487
Welfare, 519, 911
Wetness perception, 757
Wheel running, 948

Zebra finch, 103